INDEX

Aflatoxins, effect on rat liver ATPase 638
Alga, metabolism of DDT, dieldrin and photodieldrin by an 443
Algae, effect of Zectran on 565
loss of five pesticides from 149
methylmercury effect on growth of 348
4-Aminopyridine, analysis in plants 641
effects on bird reproduction 758
Analysis, automated, of nitro-compounds in water 579
fluorometric method for Bayrusil 633
gas chromatographic, of fluoroacetate 751
of 4-aminopyridine in sunflower 641
Animals, diphenylamine in dairy cows 177
distribution of lindane in dog brain 619
effect of DDCN on frog tadpoles 233
lead in hair of small mammals 551
metabolism of DDT & DDE in deer 316
diazinon in the dog 611
PCB's in the monkey 471
non-teratogenicity of 2,4,5-T in the Rhesus 477
toxicity of DFP to squid enzymes 133
uptake of cadmium in zinc deficient hamsters 40
Apparatus, for aquatic assay of pesticides 183
Asulam, residues and toxicity to quail 200
toxicity to birds and fish 194
ATPase, effect of aflatoxins on 638
Azinphosmethyl, persistence in soil 362
Benzidine, determination in water 436
Beryllium, acute toxicity to salamander larvae 307
Biomagnification, of dieldrin residues in food chains 108
Birds, analysis of ducks fed phthalate esters 129
Asulam residues and toxicity to 200
combined effects of methyl mercury and parathion on 257
effect of mercury on cultured chick embryo's 223
methyl mercury on duck behavior 554
4-aminopyridine on reproduction of 758
hen estrogen metabolism and high levels of DDT 698
pollutants and the brown pelican 646
toxicity of Asulam to 194
high Dietary levels of DDT to 703
Blood, DDT in human 483
Cadmium, a simple tissue extraction method 97
uptake by zinc deficient hamsters 40
Carbaryl, degradation by marine microorganisms 666
exposure of workers to 385
Carbon monoxide, hematological effects of chronic exposure 537
Chlorobenzoate, microbial cometabolism of 357
Chlorophenoxy acids, analysis of free and bound 730
Chlorpyrifos, metabolism in the eastern subterrranean termite 351
Clean-up, sweep codistillation adapted to a gas chromatograph 692
2,4-D, removal of residues from containers 44
DDT, effect on production of Daphnia 412

DDT, high levels and hen estrogen metabolism 698
in bird eggs 401
human blood and a marsh 483
levels in human blood 57
removal from sweet potato wash water 37
residues in forest biota 117
short term effects on osmoregulation in fish 297
toxicity to birds, high levels of 703
DDE & DDE, metabolism in deer 316
uptake by fish 209
Dicamba, fate in a model ecosystem 280
residues in forest streams 1
Diledrin, biomagnification in food chains 108
effect on androgen uptake by prostate tissue 80
Diphenylamine, in the dairy cow 177
Eggs, DDT and PCB's,levels in osprey 401
Endosulfan, identification based on photolysis products 662
uptake by common mussel 170
Enzymes, inhibition by kepone 153
inhibition of carbonic anhydrase 625
toxicity of DFP to squid 133
Fenitrothion, determination of the S-methyl isomer 291
residues in forest trees 678
Fish, absorption and elimination of photodieldrin by 582
acute toxicity of Asulam to 194
avoidance of fenitrothion by goldfish 492
effect of DDT on osmoregulation 297
heartrate depression by phthalate esters in 275
inhibition of ATPases from, by kepone 153
by toxaphene 238
mercury in, from Quebec 673
methyl mercury in rainbow trout 406
pesticides in, from Hawaiian canal 206
pH and mercury accumulation in 188
susceptibility to nonionic surfactants 377
thallium occurrence and toxicity to 23
toxic effects of methylmercury to kidney of 570
toxicity to fish related to feeding time 269
of mixtures of insecticides to 518
uptake of PCB's, DDT & DDE by 209
Fluoroacetate, gas chromatographic analysis of 751
Forest, DDT residues in biota of 117
Dicamba residues in streams of 1
Fumigants, determination of movement in stored grains 527
Fungi, transformation of malathion by Aspergillus oryzae 596
Gas chromatography, determination of S-methyl isomer of fenitrothion by 291
of zinc phosphide in vegetation 392
Herbicides, determination of linuron 602
Dicamba residues in forest streams 1
metabolism of Kerb by a cow 433
removal of 2,4-D residues from containers 44
Hexachlorobenzene, placental transfer in the rat 489
Hexachlorophene, concentrations in human milk 167

Insecticide residues in non-target areas 123
Insecticides, confirmation of organophosphorous by chemical reduction 141
effect of Zectran on algae 565
foliar residues on cotton 334
metabolism of diazinon in the dog 611
residues in food after room treatment 593
metabolism of chlorpyrifos by the termite 351
Kepone inhibition of catfish brain ATPase 153
Lead, content in human male aorta 417
of pet foods 630
extraction from aluminum 330
in hair of small mammals 551
Liquid chromatography of S-methyl isomer of fenitrothion 291
Malathion, kinetics of degradation in water 707
transformation by Aspergillus oryzae 596
Mercury, barbiturate potentiation of poisoning by 737
decreased learning capacity in rats exposed to 73
fish accumulation affected by pH 188
in fish from Quebec 673
in whalemeat fed laying hens 324
sources in sewage 397
Metabolism, methemoglobin formed by a 3,4-dichloraniline metabolite 9
of PCB's in vitro 424
Methyl mercury, combined with parathion, effect on birds 257
effects on duck approach and avoidance behavior 554
effects on growth of algae 348
in brain of rats 451
metabolism in rainbow trout 406
toxic effects on fish kidney 570
Microbial assay of patulin 689
,cometabolism of chlorobenzoate 357
degradation of carbaryl and 1-naphthol 666
metabolism of phthalates 342
Model ecosystem, fate of Dicamba in 280
parathion in 543
Nitroso compounds, formed from nitrite and dimethylglycine 226
Organochlorine clay complexes 497
,factors affecting volatility from surfaces 284
in soil and uptake by grass 501
in water 656
metabolism by an alga 443
photolysis of aldrin and chlordene on silica gel 301
Organophosphates, confirmation by chemical reduction 141
Parathion, combined effect with methyl mercury in birds 257
fate in a model ecosystem 543
measurement of the metabolism of 745
potential exposure to from contaminated cigarettes 369
recovery from soils 714
PCB, cleanup for analysis of, in water 159
effects on the production of Daphnia 412

PCB, excretion in cows milk 313
in bird eggs 401
PCB's, effects on selected enzyme systems 456
in vitro metabolism of 424
lack of cytogenetic effects in rats treated with 14
levels in human blood 57
metabolism in the monkey 471
migration in soil induced by water 86
novel excretion in the rat 681
photolysis in methanol 181
rate of bacterial degradation of 249
uptake by sunfish 209
PCT's, levels in human blood 57
Pesticide residues, cigarette smoke as a source of 101
Pesticides, air filter protecting tractor operator from 263
levels in racoon fat 741
Petroleum hydrocarbons, extraction from oil contaminated sediments 245
Phthalate esters, heartrate depressors in fish 275
microbial metabolism of 342
Photodieldrin, environmental fate of 64
Rat, hexachlorobenzene placental transfer in 489
Rats,decreased learning capacity in lead exposed 73
effects of PCB's on selected enzyme systems of 456
incorporation of methylmercury in protein of 451
lack of cytogenetic effects in rats treated with PCB's 14
Residues of chlorofungicides in soil and lettuce 720
Shellfish, uptake of endosulfan by common mussel 170
Soil, persistence of azinphosmethyl in 362
uptake of organochlorines from 501
recovery of parathion from 714
Surfactants, reduction by irradiation 31
2,4,5-T, non-teratogenicity in the monkey 477
Thallium, occurrence and toxicity to fish 23
Tetrachlorobenzodioxin, alteration of utilization of thymidine by 52
Toxaphene, inhibition of catfish ATPase 238
Volatility, of DDT, dieldrin,& 2,4-D from leaf and glass surfaces 284
Water, apparatus for aquatic assay of pesticides 183
chlorinated hydrocarbon residues in 94
cleanup of, for PCB analysis 159
Dicamba residues in forest streams 1
kinetic studies of malathion degradation in 707
pesticides in fish from Hawaii 206
Worker reentry, estimation without human exposure 506
Workers, migrant, pesticide exposure of 513
Zinc, lapsed feeding time and toxicity of, to fish 269
Zinc phosphide, determination of by gas chromatography 392